# EDWARDS PROPERTY PRELIMINARY PLANS

LEGEI	ND AND ABBREVIATIO	ONS		
EXISTING SYMBOLS		ABBREVIATIONS		
SYMBOL	DESCRIPTION	СВ	CATCH BASIN	
•	FND REBAR & CAP	Œ.	CENTERLINE	
PT	POWER TRANSFORMER	CMP	CORRUGATED METAL PIPE	
PV	POWER VAULT	CP	CONCRETE PIPE	
1	TELCO MANHOLE	EL	ELEVATION	
TEL	TELCO RISER	EXIST.	EXISTING	
$\leftarrow$	GUY ANCHOR	Æ	FLOWLINE	
-0-	POWER POLE	IE	INVERT ELEVATION	
J	JUNCTION BOX	LCPE LI	NED CORRUGATED POLYETHYLENE PIPE	
S) SSMH	SANITARY SEWER MANHOLE	R	PROPERTY LINE	
CB	CATCH BASIN	PP	POWER POLE	
△ <sub>FH</sub>	FIRE HYDRANT	PVC	POLYVINYL CHLORIDE PIPE	
$\boxplus_{WM}$	WATER METER	R/W	RIGHT-OF-WAY	
$\bowtie_{WV}$	WATER VALVE	STA	STATION	
	TREE CONIFEROUS	SD	STORM DRAIN	
	TDEE DECIDIONS	SS	SANITARY SEWER	
	TREE DECIDUOUS	SSMH	SANITARY SEWER MANHOLE	
PROPOSE	D STORM SYMBOLS	SWPE	SOLID WALL POLYETHYLENE PIPE	
SYMBOL	DESCRIPTION	TYP	TYPICAL	
<b>r</b>	SD CAP	TBR	TO BE REMOVED	
	TYPE 1 CATCH BASIN, GRATED LID	DDODOSEI	NATED CYMPOLS	
	TYPE 1 CATCH BASIN, SOLID LID	SYMBOL	D WATER SYMBOLS  DESCRIPTION	
	TYPE 2 CATCH BASIN, GRATED LID		WATER CAP	
	TYPE 2 CATCH BASIN, SOLID LID		CONCRETE BLOCKING	
	BEEHIVE MANHOLE COVER	BUTTERFLY VALVE		
	SQUARE YARD DRAIN	11' BEND		
⊜	ROUND YARD DRAIN	J	45' BEND	
0	STORM CLEAN OUT	\$ <u></u>	90. BEND	
	STORM PIPE	<del>-</del>	22' BEND	
חחחחפר	D CEMED CAMBOLC	H	VALVE	
PRUPUSE SYMBOL	D SEWER SYMBOLS  DESCRIPTION	<b>6</b> -	HYDRANT ASSEMBLY	
STWIDUL	DESCINI HON	•	RLOW_OFF VALVE	

SCALE: 1'' = 60'- FOUND 5/8" REBAR & CAP, "DRS 31445" 0.2' NORTH AND 0.1' EAST OF CALCULATED POSITION (3–27–20) FOUND 5/8" REBAR W/ OBLITERATED CAP — 0.4' NORTH OF CALCULATED POSITION N88'02'46"W 675.15' (C)(D) TRACT 995 TRACT 996 TRACT 994 FROJECT BENCHMARK
FOUND 4"X4" CONCRETE MONUMENT WITH
3-1/2"X 3-1/2" METAL PLATE AND
RAISED BOLT PUNCHED AND STAMPED
"307-A" ELEVATION = 173.25 FEET
0.3' WEST OF CALCULATED PROPERTY AND 0.1' WEST OF FOUND 5/8" REBAR - & CAP, "WEB 16230" ON CALCULATED POSITION (3–27–20) **TRACT 992 TRACT 993** TRACT 999 N87'57'11"W 145.00' (C)(D) N87'57'11"W 238.24' (C)(D) FOUND 5/8" REBAR & CAP, "WEB 16230" Q. FOUND 5/8" REBAR & CAP, "WEB 16230" (3–27–20) NORTH ÓF CALCULATED POSITION (3–27–20) 3324069547 FRANCES LANE (PVT) FOUND 5/8" REBAR & CAP, "CEI 28101" -0.1' SOUTH AND 0.1' EAST OF CALCULATED

# **CONTACT LIST**

APPLICANT: SUPERIOR STEEL AND IRONWORKERS, INC. 21229 84TH AVE S KENT, WASHINGTON 98032 CONTACT: JAMES EDWARDS PHONE: (425) 677-8100 FAX: (866) 588-4766 EMAIL: jim.e@superiorsteel.com

SEWER CAP

SEWER CLEANOUT

SEWER MANHOLE

SEWER PIPE

SURVEYOR: 20210 142ND AVE NE WOODINVILLE, WA 98072 CONTACT: VINCE TOWNSEND, PLS PHONE: (425) 806-1869 FAX: (425) 482-2893 EMAIL: vtownsend@ldccorp.com

**ARBORIST:** ARBOR INFO. LLC. 2406 N CASTLE WAY LYNNWOOD, WASHINGTON 98036 CONTACT: TOM HANSON PHONE: (206) 300-9711 EMAIL: tom.hanson@arborinfo.com

TRAFFIC ENGINEER: GIBSON TRAFFIC CONSULTANTS, INC 2813 ROCKEFELLER AVE, STE B EVERETT, WASHINGTON 98201 CONTACT: BRAD LINCOLN, PE PHONE: (425) 339-8266

EMAIL: bradl@gibsontraffic.com

CIVIL ENGINEER:

LDC, INC. 20210 142ND AVE NE WOODINVILLE, WA 98072 CONTACT: MARK VILLWOCK, PE PHONE: (425) 806-1869 FAX: (425) 482-2893 EMAIL: mvillwock@ldccorp.com

REDUCER

AIR-VAC ASSEMBLY

WATER METER

LANDSCAPE ARCHITECT: ORIGIN DESIGN GROUP

1031 185TH AVE NE SNOHOMISH, WA 98290 CONTACT: KRYSTAL LOWE PHONE: (425) 346-1905 EMAIL: origindg@gmail.com

WETLAND BIOLOGIST: ACRE ENVIRONMENTAL CONSULTING, LLC. 17715 28TH AVE NE

LAKE FOREST PARK, WASHINGTON 98155 CONTACT: LOUIS EMENHISER PHONE: (206) 450-7746 EMAIL: louis@acreenvironmental.com GEOTECHNICAL ENGINEER:

ICICLE CREEK ENGINEERS

29335 NE 20TH ST CARNATION, WA 98014 CONTACT: BRIAN BEAMAN PHONE: (425) 333-0093 EMAIL: info@iciclecreekengineers.com

# IMPERVIOUS AREAS

XISTING IMPERVIOUS:		(1.80%)
EW IMPERVIOUS:	0.740 AC	(18.05%)
EPLACED IMPERVIOUS:	0.000 AC	(0.00%)
EW PLUS REPLACED IMPERVIOUS:	0.740 AC	(18.05%)
MPERVIOUS COVER (TRACT):	0.310 AC	(7.56%)
MPERVIOUS COVER (LOTS):	0.430 AC	(10.49%)
OTAL IMPERVIOUS:	0.740 AC	(18.05%)

**EARTHWORK QUANTITIES** 

2,800 CY 4,050 CY NET: 1,250 CY (FILL) DISTURBED AREA: 91,781 SF (2.11 AC)

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COVER SHEET (CS-01)

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PRELIMINARY TESC PLAN (ER-01)

PRELIMINARY TESC NOTES AND DETAILS (ER-02)

PRELIMINARY SITE PLAN (SP-01)

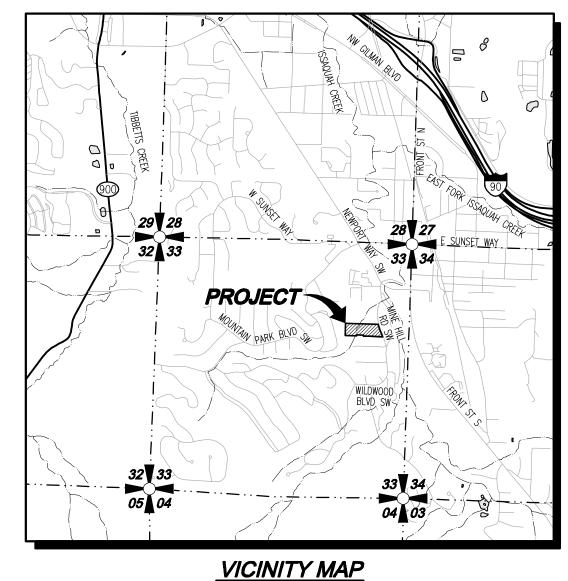
PRELIMINARY ROAD, GRADING AND UTILITY PLAN (RD-01)

PRELIMINARY ROAD PROFILES AND SECTIONS (RD-02 - RD-03)

L-1 - L-3 LANDSCAPE PLANS

# PROJECT INFORMATION

TAX PARCELS: 3324069045 SITE ADDRESS: 240 SW FRANCIS LN ISSAQUAH, WA 98027 SITE AREA: 178,638 SF 4.10 AC CURRENT ZONING: PROPOSED ZONING: SF-S PROPOSED LAND USE: RESIDENTIAL PROPOSED LOTS: CITY OF ISSAQUAH WATER: SEWER: CITY OF ISSAQUAH PUGET SOUND ENERGY POWER: PUGET SOUND ENERGY GAS: TELEPHONE: COMCAST CABLE: COMCAST SCHOOL DISTRICT: ISSAQUAH #411 EASTSIDE FIRE FIRE DISTRICT: REQUIRED MINIMUM SETBACKS: FRONT: GARAGE: REAR:



### SURVEY INFORMATION

LEGAL DESCRIPTION STEWART TITLE GUARANTY COMPANY

COMMITMENT NO.: 687453 COMMITMENT DATE: MARCH 9, 2020 AT 8:00 A.M.

THAT PORTION OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 33, TOWNSHIP 24 NORTH, RANGE 6 EAST, W.M., IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

BEGINNING ON THE WEST LINE OF SAID SUBDIVISION AT A POINT WHICH IS 1,670.93 FEET SOUTH AND 1,354.59 FEET WEST OF THE NORTHEAST CORNER OF SAID SECTION 33;

THENCE SOUTH 01°24'15" WEST ALONG SAID SUBDIVISION LINE 252.00 FEET; THENCE SOUTH 88°54'25" EAST 781.63 FEET; THENCE NORTH 21°38' WEST 58.55 FEET;

THENCE NORTH 24°16' WEST 141.70 FEET. THENCE NORTH 16°00" WEST 74.23 FEET

THENCE NORTH 89°00' WEST 675.15 FEET TO THE POINT OF BEGINNING.

EXCEPT THAT PORTION DESCRIBED AS FOLLOWS: THAT PORTION OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 33, TOWNSHIP 24 NORTH, RANGE 6 EAST, W.M., IN KING

COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS: BEGINNING ON THE WEST LINE OF SAID SUBDIVISION AT A POINT WHICH IS 1,670.93 FEET SOUTH AND 1,354.59 FEET WEST OF THE NORTHEAST CORNER OF SAID SECTION 33;

THENCE SOUTH 01°24'15" WEST ALONG SAID SUBDIVISION LINE 252.00 FEET; THENCE SOUTH 88°54'25" EAST 239.57 FEET TO THE TRUE POINT OF

THENCE CONTINUING SOUTH 88°54'25" EAST 145.00 FEET; THENCE NORTH 01°24'15" EAST 20.09 FEET;

THENCE NORTH 88°54'25" WEST 145.00 FEET: THENCE SOUTH 01°25'15" WEST 20.09 FEET TO THE TRUE POINT OF

ALSO EXCEPT ANY PORTION THEREOF LYING WITHIN MINE HILL ROAD SOUTHWEST (13TH STREET)

PARCEL B: AN EASEMENT FOR INGRESS AND EGRESS OVER ALONG AND ACROSS THAT PORTION AS SHOWN ON CITY OF ISSAQUAH SHORT PLAT NO. SP-84-02, ACCORDING TO THE SHORT PLAT RECORDED UNDER RECORDING NUMBER 8503280829, RECORDS OF KING COUNTY, STATE OF WASHINGTON.

# VERTICAL DATUM

NORTH AMERICAN VERTICAL DATUM-1988

# HORIZONTAL DATUM

WASHINGTON STATE COORDINATES-NORTH ZONE

# SITE BENCHMARK

PROJECT BENCHMARK:

FOUND 4"x4" CONCRETE MONUMENT WITH 3-1/2"X 3-1/2" METAL PLATE AND RAISED BOLT PUNCHED AND STAMPED "307-A" AS SHOWN ON MAP FOUND ELEVATION = 173.25 FEET

# BASIS OF BEARING

NAD83/91 FROM GPS OBSERVATION EAST LINE OF THE NE QUARTER OF SECTION 33 (BEARING = N 01°59'43" E)

# **EQUIPMENT & PROCEDURES**

METHOD OF SURVEY: SURVEY PERFORMED BY FIELD TRAVERSE INSTRUMENTATION:

LEICA MS-50 ROBOTIC TOTAL STATION WITH DATA COLLECTOR AND LEICA GS-14 GPS MAINTAINED IN ADJUSTMENT TO MANUFACTURES SPECIFICATIONS AS REQUIRED BY WAC 332-130-100

MEETS OR EXCEEDS STATE STANDARDS WAC 332-130-090

# **SURVEY REFERENCES**

(R1) CITY OF ISSAQUAH SHORT PLAT NO. PLN11-00061 (REC NO. 2012080190010)

(R2) AMENDED RECORD OF SURVEY (REC NO. 20050422900007)

(R3) ISSAQUAH LOT LINE ADJUSTMENT NO. PLN01-00011 (REC NO. 20010430900002)

# UTILITY NOTE

SIDE:

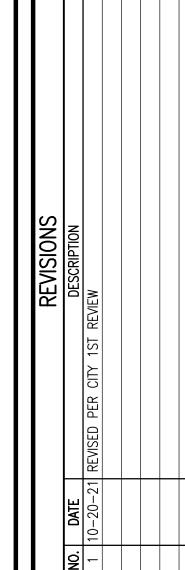
CRITICAL AREA:

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. AGENCIES INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE TIME PRIOR TO THE START OF CONSTRUCTION.

# **DISCLAIMER**

THE TOPOGRAPHIC SURVEY WAS PERFORMED BY LDC, INC. IN MAY, 2020. ANY CHANGES TO THE SITE AFTER THIS DATE WILL NOT BE REFLECTED IN THE PLANS. ANY DISCREPANCIES FOUND BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT IS NOTED IN THE FIELD SHOULD BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.





S IRONWORKER PROPERTY

AND

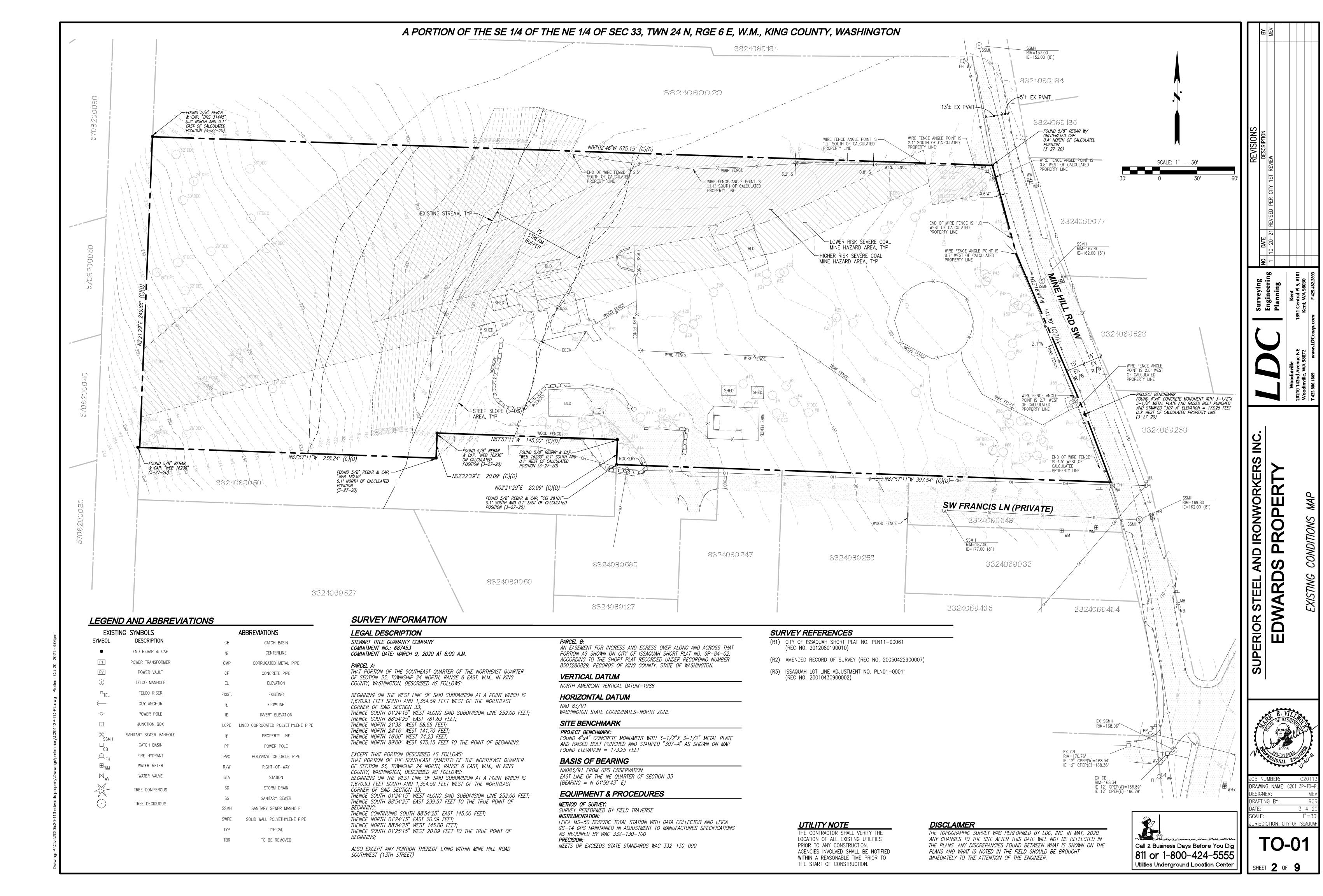
STEEL

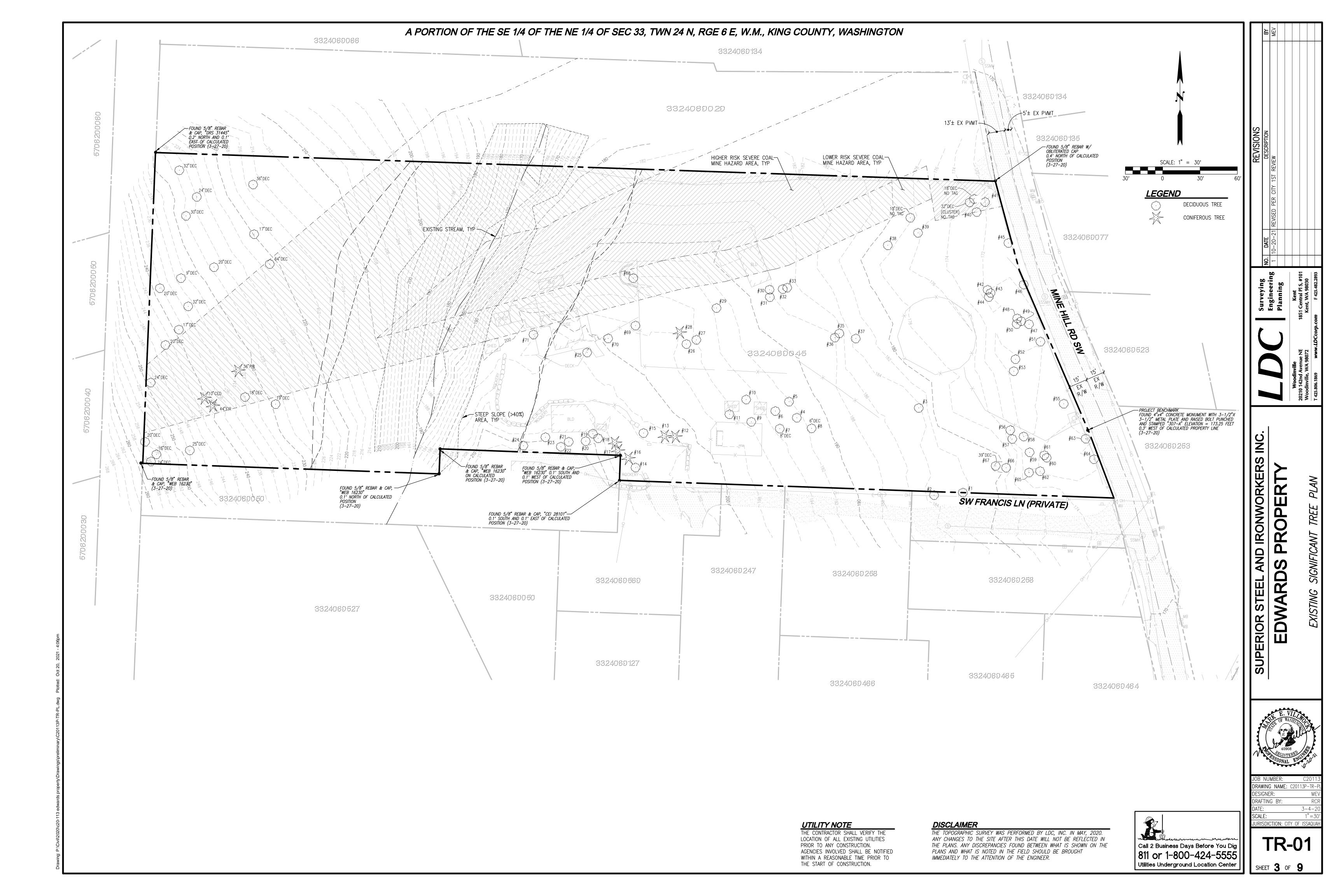
SUP

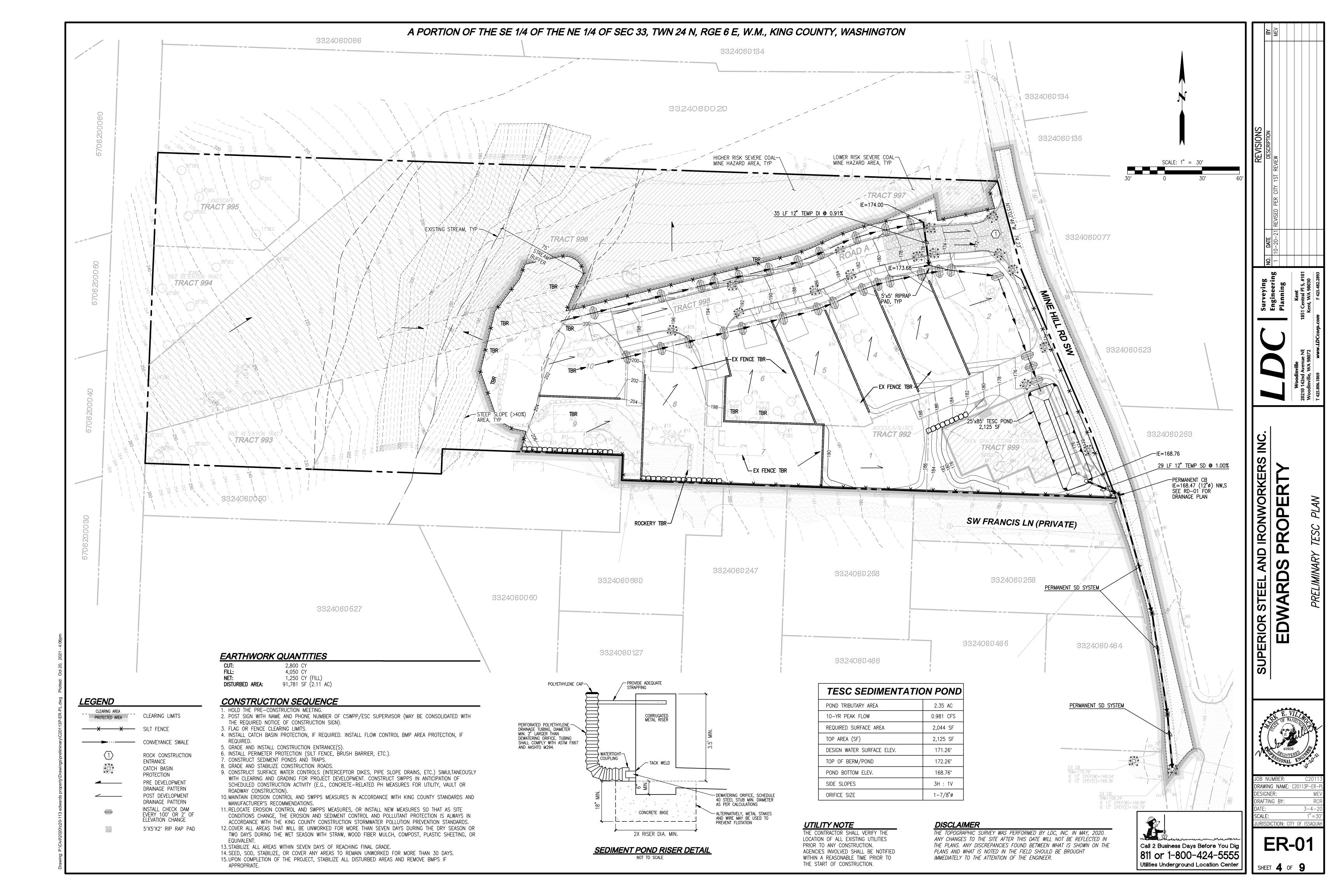
DRAWING NAME: C20113P-CS DESIGNER: DRAFTING BY:

JURISDICTION: CITY OF ISSAQU

SHEET 1 OF 9







- 1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- 2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- 3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING. IF REQUIRED, PRIOR TO CONSTRUCTION (SWDM APPENDIX D). DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- 4. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
- 5. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS. FLOW CONTROL BMP LOCATIONS (EXISTING AND PROPOSED).AND ADJACENT PROPERTIES IS
- 6. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.) AS DIRECTED BY THE CITY OF ISSAQUAH.
- 7. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE
- 8. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING,
- 9. ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
- 10. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI-MONTHLY DURING THE WET SEASON, OR WITHIN TWENTY FOUR (24) HOURS FOLLOWING A STORM EVENT.
- 11. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- 12. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY. FLOW CONTROL BMP AREAS (EXISTING OR PROPOSED) SHALL NOT BE USED AS TEMPORARY FACILITIES AND SHALL BE PROTECTED FROM SEDIMENTATION AND INTRUSION.
- 13. COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE KING COUNTY SURFACE WATER DESIGN MANUAL.
- 14. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE DPER INSPECTOR.

### CONSTRUCTION NOTES

- BEFORE ANY CLEARING OR GRADING OCCURS, MARK CLEARING LIMITS IN A PROMINENT AND DURABLE MANNER. MAINTAIN UNTIL FINAL APPROVAL
- 2. BEFORE ANY CLEARING OR GRADING OCCURS INSTALL PROTECTION FOR TREES AND CRITICAL AREAS/BUFFERS. 3. THE CONTRACTOR SHALL RESTORE TO CURRENT STANDARDS CRITICAL AREAS, AND PUBLIC AND PRIVATE PROPERTY DAMAGED BY CONTRACTOR'S OPERATIONS.
- 4. AT ALL TIMES MAINTAIN ACCESS TO BUILDINGS FOR FIRE, PEDESTRIAN AND VEHICULAR ACCESS. 5. INSTALL STEEL PLATES OVER ANY TRENCH, AT ANY TIME WORK IS STOPPED AND THE TRENCH IS OPEN.

# EROSION, SEDIMENTATION AND

**WATER QUALITY SITE INSPECTIONS:** PRIOR TO ANY SITE DEVELOPMENT WORK TAKING PLACE, A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR,

THE DEPARTMENT OF ECOLOGY REQUIRES THAT CONSTRUCTION PROJECTS ONE ACRE OR LARGER RETAIN A CESCL TO ENSURE THAT THE PROJECT IS IN COMPLIANCE WITH THE CURRENT EROSION, SEDIMENTATION AND WATER QUALITY STANDARDS. NO CESCL IS REQUIRED FOR THIS PROJECT.

# THE CESCL IS RESPONSIBLE FOR:

- A. INSPECTING THE CONSTRUCTION SITE TO ENSURE THAT ALL CONSTRUCTION SWPPP MEASURES ARE FUNCTIONING AS INTENDED.
- B. ALLOCATING RESOURCES TO REPAIR ALL EROSION CONTROL STRUCTURES THAT ARE IN NEED OF MAINTENANCE. MONITORING WATER QUALITY FOR ANY STORM DRAINAGE THAT LEAVES THE SITE.
- D. STOPPING AND/OR REDIRECTING CONSTRUCTION ACTIVITIES DEEMED NECESSARY TO PROTECT THE ENVIRONMENT.

SHOULD BMP PERFORMANCE GOALS NOT BE ACHIEVED, THE ONLY CONSTRUCTION ACTIVITIES THAT SHALL BE ALLOWED ARE THE REPAIR OF EXISTING EROSION CONTROL STRUCTURES, INSTALLATION OF ADDITIONAL BMP'S TO MINIMIZE THE TRANSPORT OF SEDIMENT OFFSITE, OR THOSE ACTIVITIES THAT DO NOT DISTURB EXPOSED EARTH AND DO NOT HAVE THE POTENTIAL TO GENERATE ADDITIONAL SEDIMENT.

# DE-WATERING CONTROL NOTES

# ALL TURBID DE-WATERING WATER SHALL BE DISPOSED OF USING ONE OF THE FOLLOWING OPTIONS:

- 2. TRANSPORT OFFSITE IN A VEHICLE, SUCH AS A VACUUM FLUSH TRUCK, FOR LEGAL DISPOSAL IN A MANNER THAT DOES NOT POLLUTE STATE WATERS.
- ECOLOGY-APPROVED ON-SITE CHEMICAL TREATMENT OR OTHER SUITABLE TREATMENT TECHNOLOGIES,
- SANITARY SEWER DISCHARGE WITH LOCAL SEWER DISTRICT APPROVAL. IF THERE IS NO OTHER OPTION. 5. USE OF A SEDIMENTATION BAG WITH OUTFALL TO A DITCH OR SWALE FOR SMALL VOLUMES OF LOCALIZED
- 6. FOUNDATION, VAULT, AND TRENCH DE-WATERING WATER, WHICH HAVE SIMILAR CHARACTERISTICS TO STORMWATER RUNOFF AT THE SITE, SHALL BE DISPERSED TO NATIVE VEGETATION AND/ OR DISCHARGED TO A

# POLLUTANT CONTROL NOTES

- 1. ALL POLLUTANTS, INCLUDING WASTE MATERIALS, THAT OCCUR ONSITE SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER.
- 2. COVER, CONTAINMENT, AND PROTECTION FROM VANDALISM SHALL BE PROVIDED FOR ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS, AND NON-INERT WASTES PRESENT ON THE SITE (SEE CHAPTER 173-304 WAC FOR THE DEFINITION OF INERT WASTE). ONSITE FUELING TANKS SHALL INCLUDE SECONDARY CONTAINMENT.
- 3. MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT EMERGENCY REPAIRS MAY BE PERFORMED ONSITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE.
- 4. APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, SHALL BE CONDUCTED IN A MANNER AND AT APPLICATION RATES THAT WILL NOT RESULT IN LOSS OF CHEMICAL TO STORMWATER RUNOFF. MANUFACTURERS' RECOMMENDATIONS FOR APPLICATION RATES AND PROCEDURES SHALL BE FOLLOWED
- MEASURES SHALL BE USED TO PREVENT OR TREAT CONTAMINATION OF STORMWATER RUNOFF BY PH MODIFYING SOURCES. THESE SOURCES INCLUDE, BUT ARE NOT LIMITED TO, BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHING AND CURING WATERS, WASTE STREAMS GENERATED FROM CONCRETE GRINDING AND SAWING, EXPOSED AGGREGATE PROCESSES, AND CONCRETE PUMPING AND MIXER WASHOUT WATERS. STORMWATER DISCHARGES SHALL NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE WATER QUALITY STANDARD FOR PH IN THE RECEIVING WATER.

# A PORTION OF THE SE 1/4 OF THE NE 1/4 OF SEC 33, TWN 24 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON

# THE TWELVE ELEMENTS OF A CONSTRUCTION SWPPP:

- THE BMPS REFERENCED BELOW ARE PER THE 2014 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON: 1. MARK CLEARING LIMITS: THE CLEARING LIMITS ARE INDICATED ON THE PLAN SHEET. CLEARING AND GRADING WILL BE LIMITED TO ONLY AREAS THAT NEED TO BE DISTURBED FOR GRADING, AND PLACING OR STOCK PILING FILL AND TO PRESERVE AS MUCH NATURAL VEGETATION AND THE DUFF LAYER AS POSSIBLE. FIELD MARKING THE CLEARING LIMITS SHALL BE COMPLETED PRIOR TO ANY CLEARING OR DISTURBING THE SITE.
  - PLASTIC OR METAL FENCE C233 SILT FENCE
- 2. ESTABLISH CONSTRUCTION ACCESS: ACCESS TO THE CONSTRUCTION SITE SHALL BE LIMITED TO THE ROCK CONSTRUCTION ENTRANCES.
  - STABILIZED CONSTRUCTION ENTRANCE
- 3. CONTROL FLOW RATES: A TEMPORARY SEDIMENT POND AND ASSOCIATED CONTROL STRUCTURE WILL BE USED TO CONTROL FLOW RATES. SEDIMENT-LADEN RUNOFF WILL BE DIRECTED TO POND.
  - TEMPORARY SEDIMENT POND
- 4. INSTALL SEDIMENT CONTROLS: SEDIMENT CONTROL WILL BE PROVIDED THROUGH A COMBINATION OF SILT FENCE, AND THE TEMPORARY DETENTION/ WATER QUALITY POND.
  - SILT FENCE C241 TEMPORARY SEDIMENT POND
- 5. STABILIZE SOILS: TEMPORARY AND PERMANENT SOIL STABILIZATION WILL BE PROVIDED. TEMPORARY STABILIZATION WILL BE PROVIDED TO EXPOSED WORKED EARTH. FROM OCTOBER 1 UNTIL APRIL 30, NO EXPOSED SOIL MAY REMAIN EXPOSED AND UNWORKED FOR MORE THAN TWO DAYS; FROM MAY 1 UNTIL SEPTEMBER 30, NO EXPOSED SOIL MAY REMAIN EXPOSED AND UNWORKED FOR MORE THAN SEVEN DAYS.
  - TEMPORARY AND PERMANENT SEEDING
  - C121 MULCHING C123 PLASTIC COVERING
- 6. PROTECT SLOPES: SLOPES SHALL BE PROTECTED FROM EROSION THROUGH COVER AND SOIL STABILIZATION.
  - TEMPORARY AND PERMANENT SEEDING
  - MULCHING
- C121 C123 PLASTIC COVERING
- 7. PROTECT DRAIN INLETS: INLET PROTECTION SHALL BE INSTALLED IN ALL CATCH BASINS AND REMAIN UNTIL CONSTRUCTION OF ALL THE RESIDENCES WITHIN THE DEVELOPMENT HAS BEEN COMPLETED. INLET PROTECTION SHALL BE INSPECTED REGULARLY AND THE FILTER FABRIC CLEANED/REPLACED AS NECESSARY. WHEN PROVIDING MAINTENANCE TO THE INLET PROTECTION, THE FABRIC SHALL BE REMOVED IN SUCH A WAY AS TO NOT ALLOW THE RETAINED SEDIMENT TO FALL INTO THE CATCH BASIN.
  - STORM DRAIN INLET PROTECTION
- 8. STABILIZE CHANNELS AND OUTLETS: ALL CHANNEL SLOPES SHALL BE CONSTRUCTED AND PROTECTED AGAINST EROSION.
- BMPS: CHECK DAMS
- 9. CONTROL POLLUTANTS: POLLUTANTS SHALL BE CONTROLLED PER POLLUTANT CONTROL NOTES. SEE THIS SHEET FOR NOTES.
- 10. CONTROL DE-WATERING: DISPOSAL OPTIONS FOR DE-WATERING WATER ARE AS SPECIFIED IN THE DE-WATERING CONTROL NOTES. SEE THIS SHEET FOR NOTES.
- 11. MAINTAIN BMPS: MAINTENANCE OF THE BMPS IS SPECIFIED IN THE CONSTRUCTION SEQUENCE AND GRADING AND EROSION CONTROL NOTES, SEE SHEET ER-01 AND THIS SHEET.
- 12. PROJECT MANAGEMENT: THE GRADING AND EROSION CONTROL NOTES SPECIFY SEASONAL WORK LIMITATIONS. BMPS SHALL BE MAINTAINED PER ELEMENT #11.

# SEED OPTIONS MIX

TABLE 4.1 REPRESENTS THE STANDARD MIX FOR THOSE AREAS WHERE JUST A TEMPORARY VEGETATIVE COVER IS REQUIRED.

TABLE 4.1 TEMPORARY EROSION CONTROL SEED MIX						
	% WEIGHT	% PURITY	% GERMINATION			
CHEWINGS OR ANNUAL BLUE GRASS FESTUCA RUBRA VAR. COMMUTATA OR POA ANNA	40	98	90			
PERENNIAL RYE LOLIUM PERENNE	40	98	90			
REDTOP OR COLONIAL BENTGRASS AGROSTIS ALBA OR AGROSTIS TENUIS	10	92	85			
WHITE DUTCH CLOVER TRIFOLIUM REPENS	10	98	90			

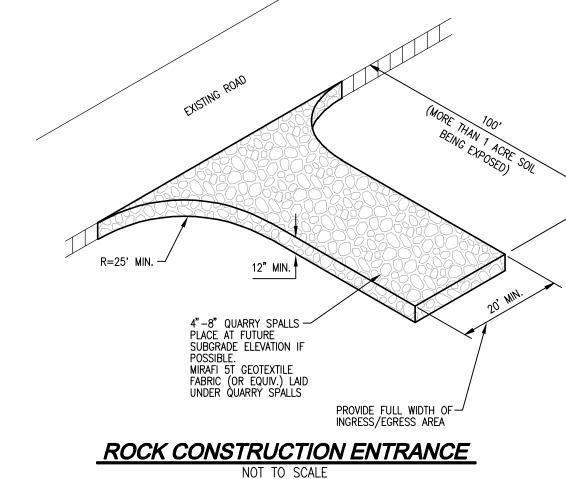
I'HIS TURF SEED MIX IN TABLE 4.3 IS FOR DRY SITUATIONS WHERE THERE IS NO NEED FOR MUCH WATER.

TABLE 4.3 LOW-GROWING TURF SEED MIX					
	% WEIGHT	% PURITY	% GERMINATION		
DWARF TALL FESCUE (SEVERAL VARIETIES) FESTUCA ARUNDINACEA VAR.	45	98	90		
DWARF PERENNIAL RYE (BARCLAY) OIUM PERENNE VAR. BARELAY	30	98	90		
RED FESCUE FESTUCA RUBRA	20	98	90		
COLONIAL BENTGRASS AGROSTIS TENUIS	5	98	90		

TABLE 4.4 PRESENTS A MIX RECOMMENDED FOR BIOSWALES AND OTHER INTERMITTENTLY WET AREAS.

TABLE 4.4 BIOSWALE SEED MIX*				
	% WEIGHT	% PURITY	% GERMINATION	
TALL OR MEADOW FESCUE FESTUCA ARUNDINACEA OR FESTICA ELATIOR	75-80	98	90	
SEASIDE/CREEPING BENTGRASS AGROSTIS PALUSTRIS	10-15	92	85	
REDTOP BENTGRASS AGROSTIS ALBA OR AGROSTIS GIGANTEA	5-10	90	80	

\*MODIFIED BRIARGREEN, INC. HYDROSEEDING GUIDE WETLAND SEED MIX



VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL. THE GRAVEL SHAL BE PLACED TO THE SPECIFIED DIMENSIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS IN THE PLAN. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. 2. AGGREGATE: 4" TO 6" CRUSHED BALLAST ROCK.

3. ENTRANCE DIMENSIONS: THE AGGREGATE LAYER MUST BE AT LEAST 6 INCHES THICK. IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA. THE LENGTH OF THE ENTRANCE MUST BE AT LEAST 100 FEET.

1. INSTALLATION: THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL

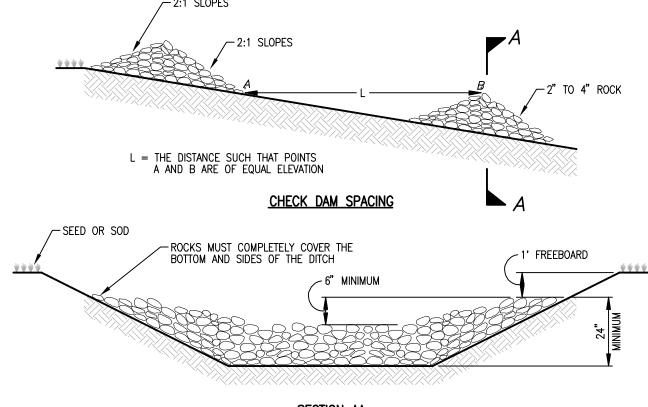
4. WASHING: IF CONDITIONS ON THE SITE ARE SUCH THAT MOST OF THE MUD IS NOT REMOVED FROM VEHICLE TIRES BY CONTACT WITH HE GRAVEL. THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER A PUBLIC ROAD WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE:

5. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAY OR INTO STORM DRAINS MUST BE REMOVED

### MAINTENANCE STANDARDS: 1. QUARRY SPALLS (OR HOG FUEL) SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.

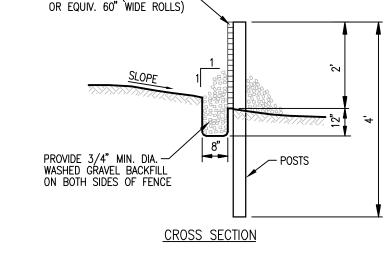
- 2. IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH, IF WASHING IS USED, IT SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK, AND WASH WATER SHALL DRAIN TO A SEDIMENT TRAP OR POND. PROVIDE TIRE WASH FOR ALL WINTER GRADING.
- 3. ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ON-SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREETS, THE CONSTRUCTION OF A SMALL SUMP SHALL BE CONSIDERED. THE SEDIMENT WOULD THEN BE WASHED
- 4. ANY ROCK SPALLS THAT ARE LOOSENED FROM THE PAD AND END UP ON THE ROADWAY SHALL BE REMOVED IMMEDIATELY.
- 5. IF VEHICLES ARE ENTERING OR EXITING THE SITE AT POINTS OTHER THAN THE CONSTRUCTION ENTRANCE(S), FENCING (SECTION 5.4.1) SHALL BE INSTALLED TO CONTROL TRAFFIC.

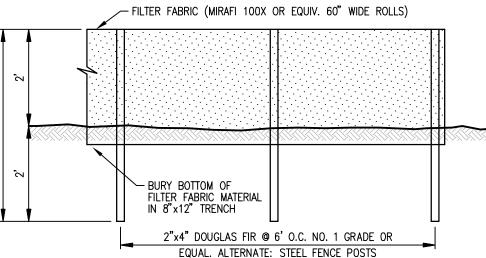


# SECTION AA

- PROVIDE ROCK CHECK DAMS EVERY 100 FT. OR EVERY 2 FT. OF VERTICAL FALL. ANY SEDIMENT DEPOSITION OF MORE THAN 0.5 FT. IN DEPTH SHALL BE REMOVED SO THAT THE CHANNEL IS RESTORED TO ITS ORIGINAL DESIGN CAPACITY. 3. THE CHANNEL SHALL BE EXAMINED FOR SIGNS OF SCOURING AND FROSION OF THE BED AND BANKS. IF SCOURING OR EROSION HAS OCCURRED, AFFECTED AREAS SHALL BE PROTECTED BY RIP-RAP OR AN EROSION CONTROL BLANKET OR NET.
- 4. SUMP SHOULD BE PROVIDED IMMEDIATELY UPSTREAM OF CHECK DAM FOR OPTIMUM

ROCK CHECK DAM





SILT FENCE DETAIL

# STE RIOR SU

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IRONWORKE

DRAWING NAME: C20113P-ER-ESIGNER: DRAFTING BY: AS NOT URISDICTION: CITY OF ISSAUL

**ER-02** SHEET 5 OF 9

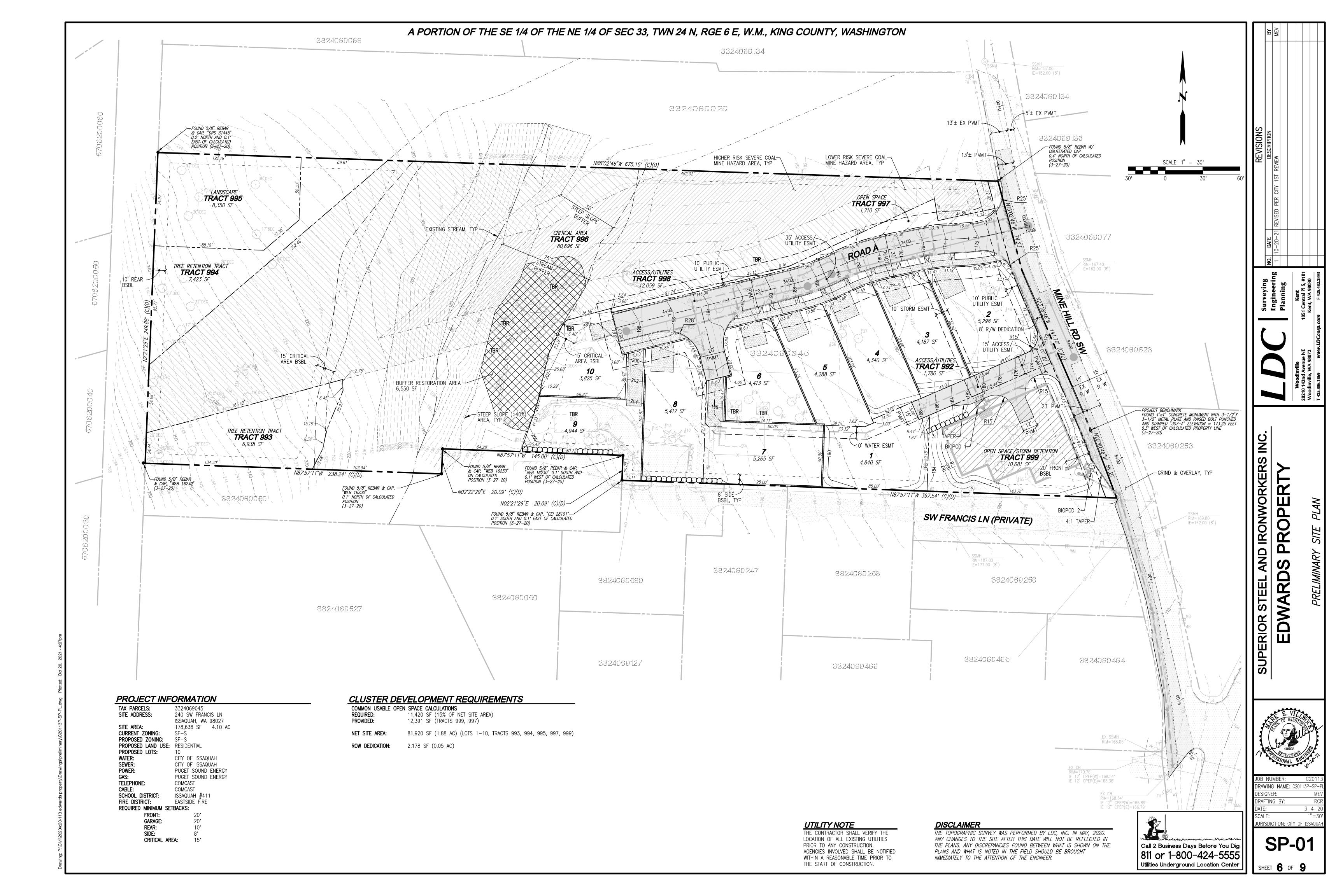
Call 2 Business Days Before You Dig 811 or 1-800-424-5555 **Utilities Underground Location Center** 

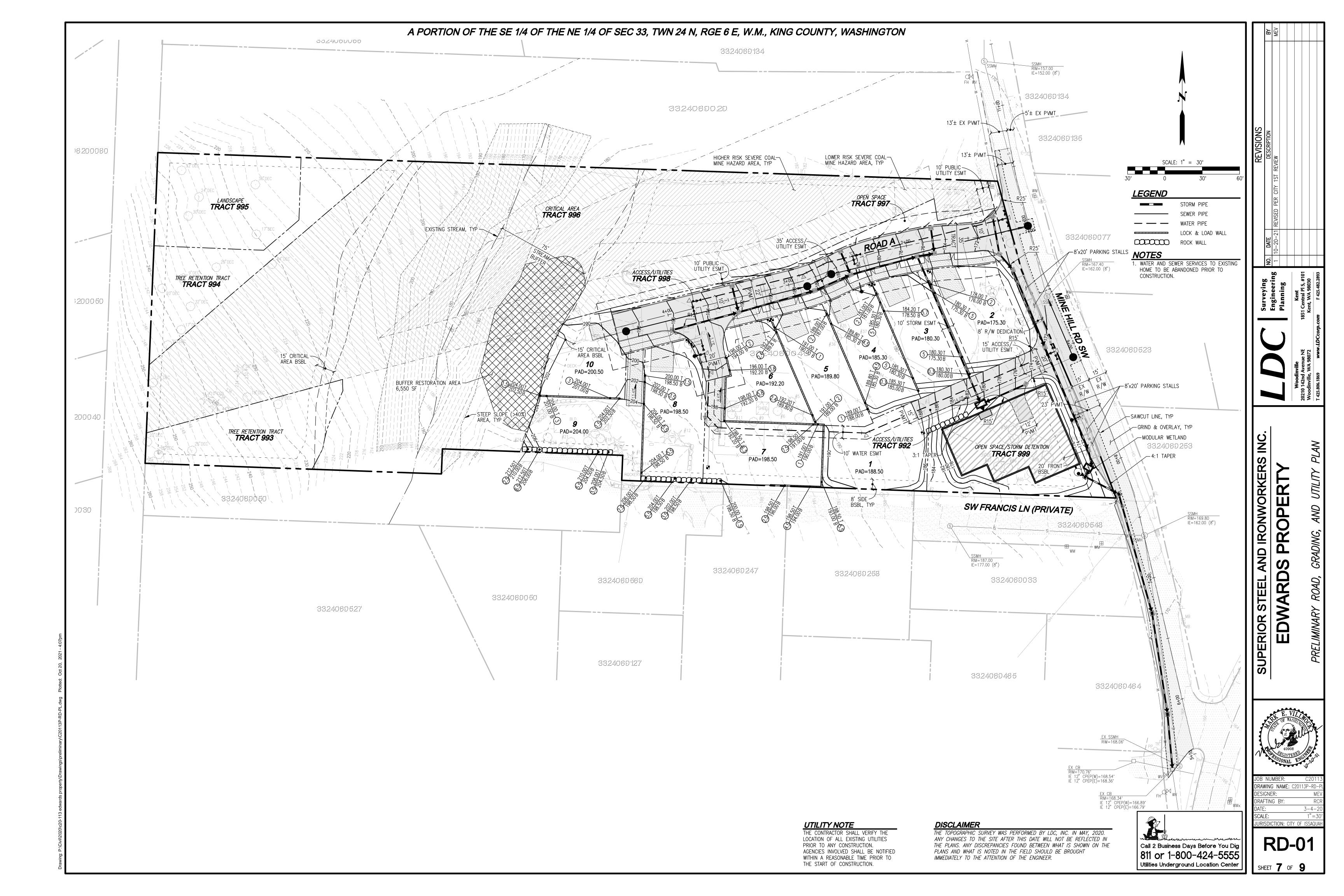
UTILITY NOTE

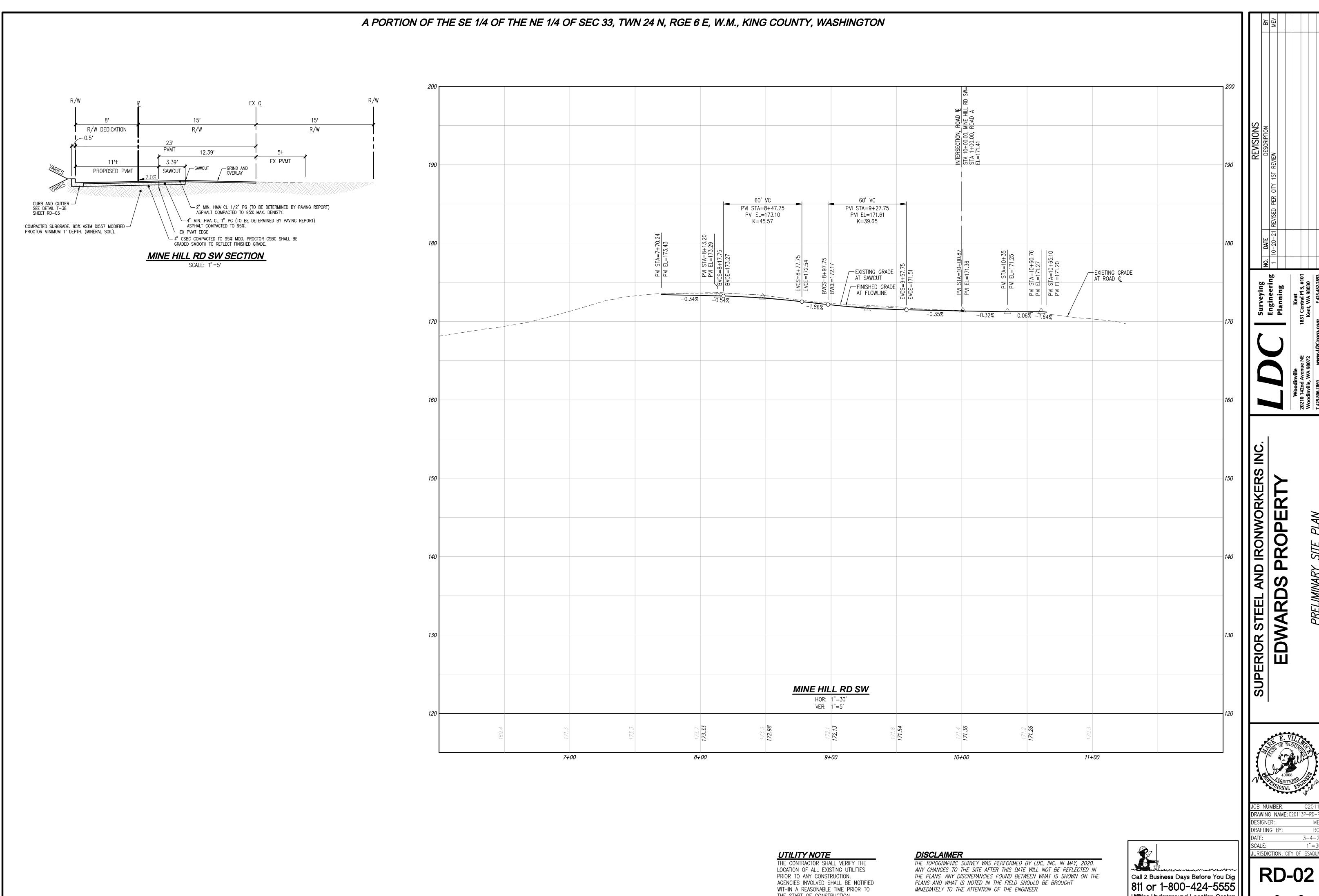
THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. AGENCIES INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE TIME PRIOR TO THE START OF CONSTRUCTION.

**DISCLAIMER** 

THE TOPOGRAPHIC SURVEY WAS PERFORMED BY LDC, INC. IN MAY, 2020. ANY CHANGES TO THE SITE AFTER THIS DATE WILL NOT BE REFLECTED IN THE PLANS. ANY DISCREPANCIES FOUND BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT IS NOTED IN THE FIELD SHOULD BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.

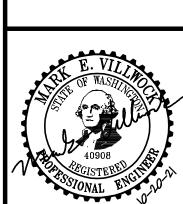






AND IRONWORKERS INC.

S PROPERTY



DRAWING NAME: C20113P-RD-

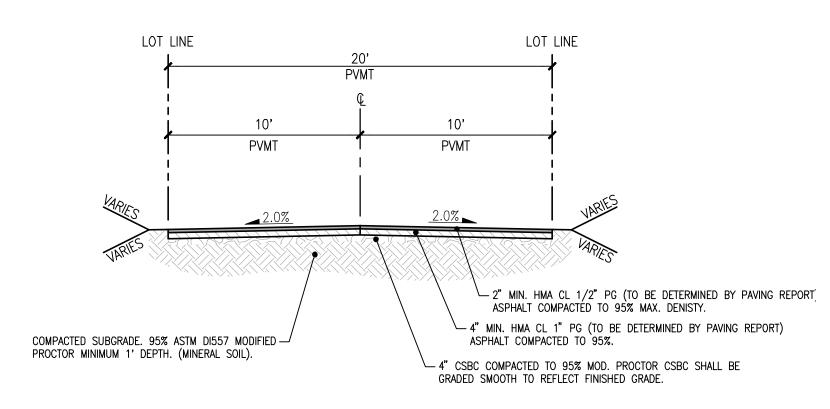
Utilities Underground Location Center

IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.

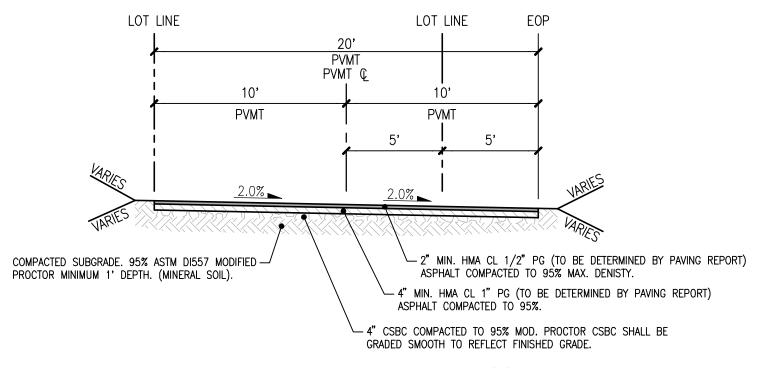
WITHIN A REASONABLE TIME PRIOR TO

THE START OF CONSTRUCTION.

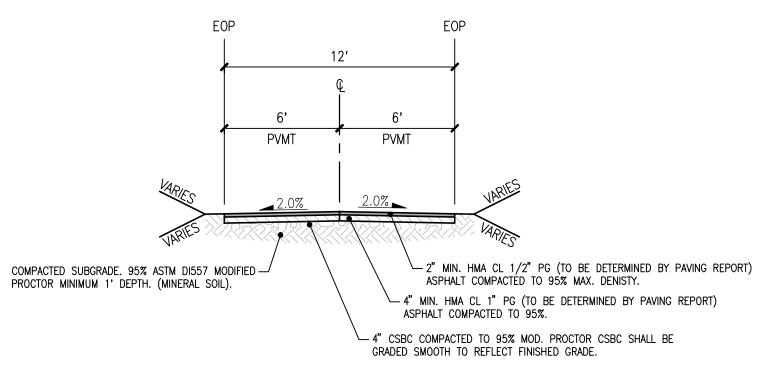
# A PORTION OF THE SE 1/4 OF THE NE 1/4 OF SEC 33, TWN 24 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SE 1/4 OF THE NE 1/4 OF SEC 33, TWN 24 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SE 1/4 OF THE NE 1/4 OF SEC 33, TWN 24 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SE 1/4 OF THE NE 1/4 OF SEC 33, TWN 24 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SE 1/4 OF THE NE 1/4 OF SEC 33, TWN 24 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SE 1/4 OF THE NE 1/4 OF SEC 33, TWN 24 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SE 1/4 OF THE NE 1/4 OF SEC 33, TWN 24 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SE 1/4 OF THE NE 1/4 OF SEC 33, TWN 24 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SE 1/4 OF THE NE 1/4 OF SEC 33, TWN 24 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SE 1/4 OF THE SE 1/4 OF THE NE 1/4 OF SEC 33, TWN 24 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SE 1/4 OF THE SE 1/4 OF THE SEC 33, TWN 24 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SE 1/4 OF THE SEC 34 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SEC 34 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SEC 34 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SEC 34 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SEC 34 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SEC 34 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SEC 34 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SEC 34 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SEC 34 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SEC 34 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SEC 34 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SEC 34 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SEC 34 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SEC 34 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SEC 34 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SEC 34 N, RGE 6 E, W.M., KING COUNTY, WASHINGTON OF THE SEC 34 N, RGE 6 E, W.M., RGE 6

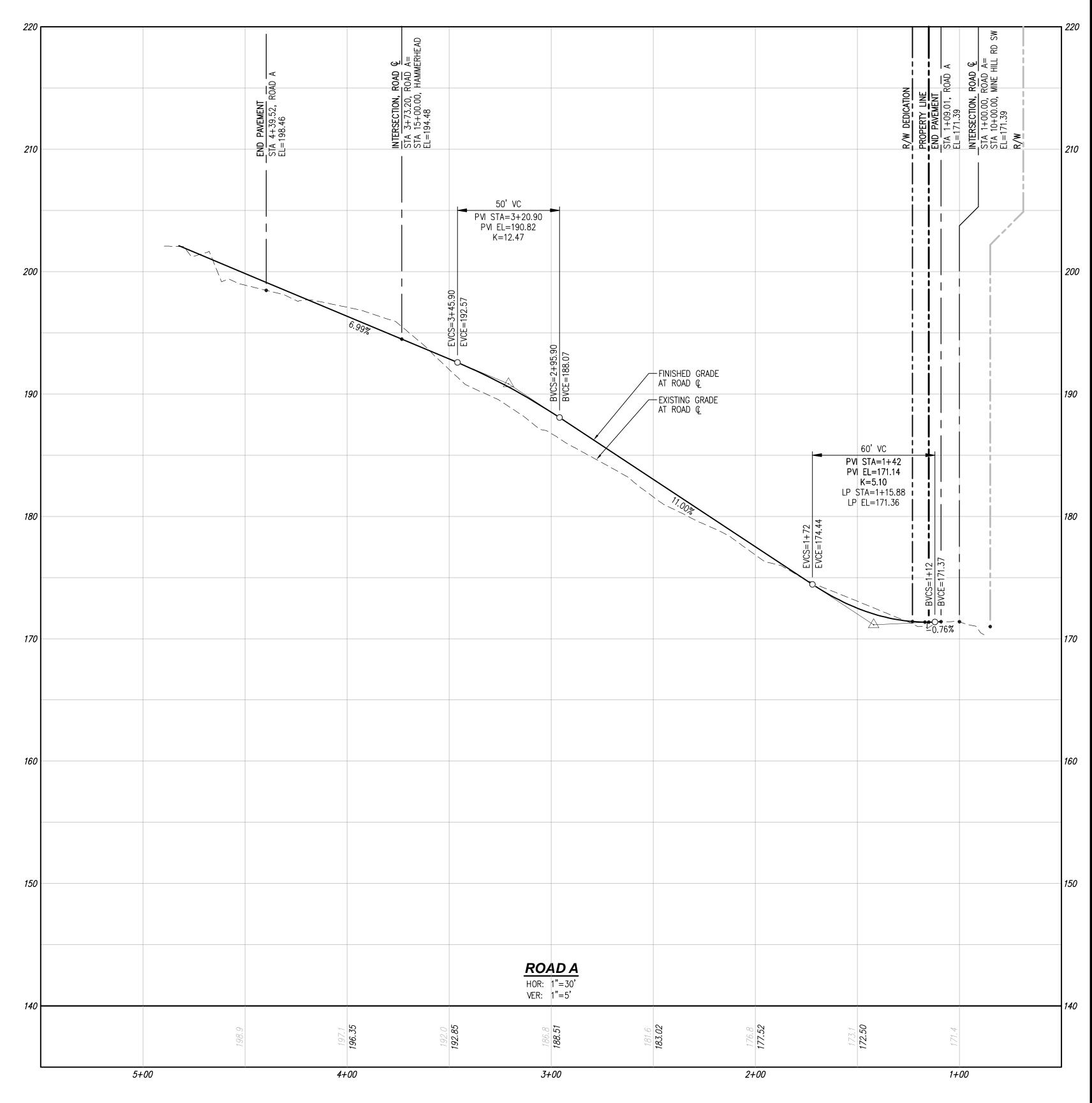


# ROAD A HAMMERHEAD SECTION



# LOT 1 AND TRACT 999 ACCESS SCALE: 1"=5'





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Call 2 Business Days Before You Dig 811 or 1-800-424-5555
Utilities Underground Location Center

E. VII.
OF WASHINGTON
40908

\*\*SSIONAL ENGINEERING\*\*

OF WASHINGTON

AUGUST STEELS

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AUGUST STEELS

OF WASHINGTON

OF WASHINGTO

AND IRONWORKERS INC

JOB NUMBER: C2011

DRAWING NAME: C20113P-RD-F

DESIGNER: ME

DRAFTING BY: RC

DATE: 3-4-2

RD-03

awing: P:\Civil\2020\c20-113 edwards property\Dr

TRACT 999 HAMMERHEAD

SCALE: 1"=5'